

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTLOWT35120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4106
[TESTLAB] TUV SUD America
[ISSUEDATE] 5/4/2021 1:47:37 PM
[MANUFAC] BEGHELLI
[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE
[LUMINAIRE] BX910LED4HTLOWT35120-277V_P
[AMBIENT] 24.8 deg C
[POWERFACTOR] 0.9984
[ATHD] 4.25%
[CURRENT] 0.48
[VOLTAGE] 120.04
[STABILIZATION] 60:59.6 Stable
[POWER VARIATION] 0.40 %
[LIGHT VARIATION] 0.49 %
[Lumens] 7606.4
[END VOLTS] 120.04
[END CURRENT] 0.48
[END POWER] 56.96

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4337
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	3.79 ft
Luminous Height	0.25 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11307	11459	14334
55	4486	8153	11135
65	1211	3868	7521
75	293	1359	4223
85	25	167	1297

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442
2.5	1784.721	1783.177	1783.798	1784.482	1781.005	1781.450	1792.057	1792.006	1787.999	1788.882
5.0	1783.325	1776.228	1776.040	1777.898	1773.544	1774.798	1785.023	1784.847	1781.957	1780.777
7.5	1776.582	1769.286	1769.884	1771.360	1766.618	1765.410	1772.523	1770.796	1768.818	1763.335
10.0	1766.624	1762.235	1761.824	1759.077	1753.155	1750.060	1758.330	1755.395	1753.582	1751.074
12.5	1758.136	1752.231	1750.880	1743.989	1736.699	1732.960	1740.324	1738.152	1728.240	1725.686
15.0	1750.977	1743.601	1740.620	1730.258	1720.260	1711.026	1715.364	1716.612	1702.943	1696.349
17.5	1742.923	1735.131	1725.817	1712.234	1699.107	1687.570	1679.619	1682.731	1670.009	1663.545
20.0	1743.778	1732.486	1710.969	1689.149	1674.694	1653.370	1642.484	1638.830	1628.832	1619.980
22.5	1771.281	1751.924	1712.525	1671.502	1640.728	1612.433	1596.906	1590.636	1579.897	1569.535
25.0	1797.637	1775.026	1726.142	1665.580	1604.613	1562.626	1543.651	1534.337	1519.888	1513.247
27.5	1799.479	1777.499	1719.525	1652.168	1584.264	1515.653	1483.875	1473.809	1459.570	1454.041
30.0	1792.336	1763.939	1693.994	1618.008	1555.279	1477.862	1423.199	1408.687	1396.973	1386.821
32.5	1790.239	1754.306	1667.706	1573.895	1509.109	1438.885	1374.715	1345.000	1329.337	1322.263
35.0	1817.553	1773.874	1660.404	1539.844	1459.987	1384.838	1324.948	1280.790	1266.312	1257.181
37.5	1854.580	1807.156	1678.513	1529.019	1410.568	1323.101	1260.196	1223.300	1197.017	1193.375
40.0	1806.472	1773.823	1687.599	1536.720	1374.219	1261.678	1190.707	1156.074	1123.533	1121.344
42.5	1630.183	1620.704	1603.131	1520.207	1362.511	1206.012	1115.536	1074.473	1042.325	1037.702
45.0	1408.897	1406.977	1427.901	1429.566	1345.536	1158.565	1035.667	988.477	959.333	951.963
47.5	1191.112	1194.121	1227.717	1274.338	1275.626	1117.542	958.592	905.770	877.863	869.752
50.0	980.041	990.780	1035.719	1095.962	1162.908	1053.919	889.781	821.507	793.685	784.309
52.5	760.790	782.126	850.138	918.458	1019.701	960.524	823.365	738.036	709.222	697.429
55.0	550.540	575.643	666.472	754.828	860.774	850.446	744.169	656.845	627.912	615.725
57.5	390.564	407.989	492.332	604.810	709.160	729.212	654.269	577.837	548.574	536.370
60.0	276.849	290.204	351.718	463.564	576.754	601.931	563.582	503.800	470.689	458.941
62.5	196.445	207.098	251.342	340.586	462.122	486.786	471.424	428.537	396.577	386.728
65.0	141.827	149.819	181.687	245.915	363.677	390.045	386.089	354.261	328.862	319.673
67.5	101.887	108.306	131.653	177.213	276.074	307.281	308.062	286.516	267.210	258.820
70.0	71.506	76.944	94.751	127.686	201.888	239.155	240.950	227.316	212.587	205.707
72.5	48.661	52.976	66.667	91.177	145.019	182.041	183.694	175.896	164.707	159.475
75.0	31.641	34.912	45.777	63.658	102.104	134.315	135.922	132.514	123.582	119.996
77.5	18.793	20.799	28.779	42.397	69.717	95.771	97.014	95.954	88.954	86.617
80.0	10.049	10.773	14.894	24.157	44.825	63.652	64.758	64.889	60.169	58.624
82.5	5.375	5.495	6.692	10.083	24.259	37.232	38.572	39.301	36.417	35.437
85.0	2.411	2.508	2.901	3.665	8.601	16.034	17.881	19.454	18.149	17.465
87.5	0.598	0.644	0.764	0.997	2.303	3.545	4.338	5.791	5.860	5.426
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442
2.5	1788.221	1791.795	1790.433	1776.029	1772.335	1779.135	1777.659	1777.990	1783.439	1777.990
5.0	1777.112	1783.023	1783.222	1766.909	1764.030	1774.114	1770.808	1771.309	1778.959	1771.309
7.5	1764.218	1768.767	1770.323	1754.249	1754.580	1769.137	1765.985	1766.960	1773.880	1766.960
10.0	1750.259	1751.650	1751.148	1739.611	1741.618	1756.934	1755.554	1758.513	1763.272	1758.513
12.5	1726.393	1731.951	1733.797	1723.099	1724.740	1742.690	1745.967	1751.650	1754.825	1751.650
15.0	1698.469	1704.294	1710.131	1702.636	1707.600	1731.147	1737.035	1743.698	1746.856	1743.698
17.5	1663.203	1670.932	1675.885	1675.259	1687.189	1717.803	1726.199	1735.827	1739.817	1735.827
20.0	1621.257	1633.751	1638.265	1641.064	1658.877	1695.465	1715.495	1734.060	1741.379	1734.060
22.5	1571.838	1585.347	1589.496	1597.493	1620.652	1674.745	1722.403	1759.909	1778.736	1759.909
25.0	1515.522	1525.064	1538.327	1544.529	1591.845	1675.583	1748.515	1805.412	1825.818	1805.412
27.5	1453.226	1465.641	1476.773	1498.678	1582.879	1678.040	1757.926	1824.792	1848.909	1824.792
30.0	1388.064	1401.505	1417.732	1468.787	1557.075	1657.497	1747.329	1823.162	1854.461	1823.162
32.5	1325.478	1336.017	1370.132	1438.059	1517.973	1627.960	1733.262	1830.646	1865.884	1830.646
35.0	1262.658	1277.552	1325.506	1389.500	1475.257	1604.214	1738.825	1865.388	1916.397	1865.388
37.5	1193.950	1217.640	1272.097	1333.583	1439.638	1603.399	1779.762	1919.743	1969.857	1919.743
40.0	1119.736	1152.209	1205.436	1275.928	1420.674	1621.399	1786.722	1877.455	1897.137	1877.455
42.5	1039.737	1074.997	1131.667	1226.497	1409.439	1605.832	1678.650	1705.280	1699.985	1705.280
45.0	958.871	991.105	1053.708	1183.166	1377.918	1498.593	1482.787	1480.598	1467.847	1480.598
47.5	875.856	907.018	978.724	1132.904	1291.460	1325.769	1272.713	1261.570	1250.426	1261.570
50.0	790.955	824.653	909.464	1063.381	1143.317	1136.888	1079.078	1056.672	1040.871	1056.672
52.5	707.963	741.234	839.000	975.184	974.341	957.948	894.022	844.814	814.918	844.814
55.0	626.550	661.337	757.980	858.922	811.600	795.709	701.847	632.130	600.210	632.130
57.5	546.989	584.051	668.673	722.709	669.613	639.825	521.533	453.310	424.473	453.310
60.0	469.030	508.172	584.849	591.073	543.877	488.119	375.995	323.139	304.659	323.139
62.5	395.437	432.368	496.880	476.081	432.681	358.433	269.958	235.934	224.164	235.934
65.0	328.588	358.040	405.555	381.233	330.851	260.536	198.223	174.568	166.269	174.568
67.5	267.051	290.369	320.517	302.066	244.741	189.194	147.242	128.735	122.869	128.735
70.0	212.576	230.360	250.213	233.535	178.005	138.738	108.807	94.175	89.148	94.175
72.5	164.194	178.849	191.053	175.777	127.771	101.597	79.156	67.556	62.934	67.556
75.0	123.479	134.440	142.477	128.809	89.672	73.097	56.020	47.128	43.331	47.128
77.5	89.148	97.276	102.024	90.419	60.990	50.639	38.150	31.390	28.517	31.390
80.0	60.175	65.681	68.257	59.206	38.674	32.416	22.703	17.915	15.590	17.915

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CANDELA TABULATION - (Cont.)

82.5	36.497	39.871	41.291	33.898	20.144	16.120	10.585	8.419	7.570	8.419
85.0	18.092	19.728	19.876	13.993	6.498	5.837	4.252	3.859	3.506	3.859
87.5	5.882	6.025	5.215	3.129	1.505	1.693	1.357	1.248	1.020	1.248
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442
2.5	1777.659	1779.135	1772.335	1776.029	1790.433	1791.795	1788.221	1788.882	1787.999	1792.006
5.0	1770.808	1774.114	1764.030	1766.909	1783.222	1783.023	1777.112	1780.777	1781.957	1784.847
7.5	1765.985	1769.137	1754.580	1754.249	1770.323	1768.767	1764.218	1763.335	1768.818	1770.796
10.0	1755.554	1756.934	1741.618	1739.611	1751.148	1751.650	1750.259	1751.074	1753.582	1755.395
12.5	1745.967	1742.690	1724.740	1723.099	1733.797	1731.951	1726.393	1725.686	1728.240	1738.152
15.0	1737.035	1731.147	1707.600	1702.636	1710.131	1704.294	1698.469	1696.349	1702.943	1716.612
17.5	1726.199	1717.803	1687.189	1675.259	1675.885	1670.932	1663.203	1663.545	1670.009	1682.731
20.0	1715.495	1695.465	1658.877	1641.064	1638.265	1633.751	1621.257	1619.980	1628.832	1638.830
22.5	1722.403	1674.745	1620.652	1597.493	1589.496	1585.347	1571.838	1569.535	1579.897	1590.636
25.0	1748.515	1675.583	1591.845	1544.529	1538.327	1525.064	1515.522	1513.247	1519.888	1534.337
27.5	1757.926	1678.040	1582.879	1498.678	1476.773	1465.641	1453.226	1454.041	1459.570	1473.809

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CANDELA TABULATION - (Cont.)

30.0	1747.329	1657.497	1557.075	1468.787	1417.732	1401.505	1388.064	1386.821	1396.973	1408.687
32.5	1733.262	1627.960	1517.973	1438.059	1370.132	1336.017	1325.478	1322.263	1329.337	1345.000
35.0	1738.825	1604.214	1475.257	1389.500	1325.506	1277.552	1262.658	1257.181	1266.312	1280.790
37.5	1779.762	1603.399	1439.638	1333.583	1272.097	1217.640	1193.950	1193.375	1197.017	1223.300
40.0	1786.722	1621.399	1420.674	1275.928	1205.436	1152.209	1119.736	1121.344	1123.533	1156.074
42.5	1678.650	1605.832	1409.439	1226.497	1131.667	1074.997	1039.737	1037.702	1042.325	1074.473
45.0	1482.787	1498.593	1377.918	1183.166	1053.708	991.105	958.871	951.963	959.333	988.477
47.5	1272.713	1325.769	1291.460	1132.904	978.724	907.018	875.856	869.752	877.863	905.770
50.0	1079.078	1136.888	1143.317	1063.381	909.464	824.653	790.955	784.309	793.685	821.507
52.5	894.022	957.948	974.341	975.184	839.000	741.234	707.963	697.429	709.222	738.036
55.0	701.847	795.709	811.600	858.922	757.980	661.337	626.550	615.725	627.912	656.845
57.5	521.533	639.825	669.613	722.709	668.673	584.051	546.989	536.370	548.574	577.837
60.0	375.995	488.119	543.877	591.073	584.849	508.172	469.030	458.941	470.689	503.800
62.5	269.958	358.433	432.681	476.081	496.880	432.368	395.437	386.728	396.577	428.537
65.0	198.223	260.536	330.851	381.233	405.555	358.040	328.588	319.673	328.862	354.261
67.5	147.242	189.194	244.741	302.066	320.517	290.369	267.051	258.820	267.210	286.516
70.0	108.807	138.738	178.005	233.535	250.213	230.360	212.576	205.707	212.587	227.316
72.5	79.156	101.597	127.771	175.777	191.053	178.849	164.194	159.475	164.707	175.896
75.0	56.020	73.097	89.672	128.809	142.477	134.440	123.479	119.996	123.582	132.514
77.5	38.150	50.639	60.990	90.419	102.024	97.276	89.148	86.617	88.954	95.954
80.0	22.703	32.416	38.674	59.206	68.257	65.681	60.175	58.624	60.169	64.889
82.5	10.585	16.120	20.144	33.898	41.291	39.871	36.497	35.437	36.417	39.301
85.0	4.252	5.837	6.498	13.993	19.876	19.728	18.092	17.465	18.149	19.454
87.5	1.357	1.693	1.505	3.129	5.215	6.025	5.882	5.426	5.860	5.791
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442	1784.442
2.5	1792.057	1781.450	1781.005	1784.482	1783.798	1783.177	1784.721
5.0	1785.023	1774.798	1773.544	1777.898	1776.040	1776.228	1783.325
7.5	1772.523	1765.410	1766.618	1771.360	1769.884	1769.286	1776.582
10.0	1758.330	1750.060	1753.155	1759.077	1761.824	1762.235	1766.624
12.5	1740.324	1732.960	1736.699	1743.989	1750.880	1752.231	1758.136
15.0	1715.364	1711.026	1720.260	1730.258	1740.620	1743.601	1750.977
17.5	1679.619	1687.570	1699.107	1712.234	1725.817	1735.131	1742.923
20.0	1642.484	1653.370	1674.694	1689.149	1710.969	1732.486	1743.778
22.5	1596.906	1612.433	1640.728	1671.502	1712.525	1751.924	1771.281
25.0	1543.651	1562.626	1604.613	1665.580	1726.142	1775.026	1797.637
27.5	1483.875	1515.653	1584.264	1652.168	1719.525	1777.499	1799.479
30.0	1423.199	1477.862	1555.279	1618.008	1693.994	1763.939	1792.336
32.5	1374.715	1438.885	1509.109	1573.895	1667.706	1754.306	1790.239
35.0	1324.948	1384.838	1459.987	1539.844	1660.404	1773.874	1817.553
37.5	1260.196	1323.101	1410.568	1529.019	1678.513	1807.156	1854.580
40.0	1190.707	1261.678	1374.219	1536.720	1687.599	1773.823	1806.472
42.5	1115.536	1206.012	1362.511	1520.207	1603.131	1620.704	1630.183
45.0	1035.667	1158.565	1345.536	1429.566	1427.901	1406.977	1408.897
47.5	958.592	1117.542	1275.626	1274.338	1227.717	1194.121	1191.112
50.0	889.781	1053.919	1162.908	1095.962	1035.719	990.780	980.041
52.5	823.365	960.524	1019.701	918.458	850.138	782.126	760.790
55.0	744.169	850.446	860.774	754.828	666.472	575.643	550.540
57.5	654.269	729.212	709.160	604.810	492.332	407.989	390.564
60.0	563.582	601.931	576.754	463.564	351.718	290.204	276.849
62.5	471.424	486.786	462.122	340.586	251.342	207.098	196.445
65.0	386.089	390.045	363.677	245.915	181.687	149.819	141.827
67.5	308.062	307.281	276.074	177.213	131.653	108.306	101.887
70.0	240.950	239.155	201.888	127.686	94.751	76.944	71.506
72.5	183.694	182.041	145.019	91.177	66.667	52.976	48.661
75.0	135.922	134.315	102.104	63.658	45.777	34.912	31.641
77.5	97.014	95.771	69.717	42.397	28.779	20.799	18.793
80.0	64.758	63.652	44.825	24.157	14.894	10.773	10.049
82.5	38.572	37.232	24.259	10.083	6.692	5.495	5.375
85.0	17.881	16.034	8.601	3.665	2.901	2.508	2.411
87.5	4.338	3.545	2.303	0.997	0.764	0.644	0.598
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	654.40	N.A.	15.10
0-30	1402.15	N.A.	32.30
0-40	2335.41	N.A.	53.80
0-60	3913.12	N.A.	90.20
0-80	4320.56	N.A.	99.60
0-90	4337.13	N.A.	100.00
10-90	4168.23	N.A.	96.10
20-40	1681.02	N.A.	38.80
20-50	2621.19	N.A.	60.40
40-70	1878.87	N.A.	43.30
60-80	407.44	N.A.	9.40
70-80	106.28	N.A.	2.50
80-90	16.57	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4337.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.90
10-20	485.50
20-30	747.75
30-40	933.26
40-50	940.18
50-60	637.54
60-70	301.16
70-80	106.28
80-90	16.57
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

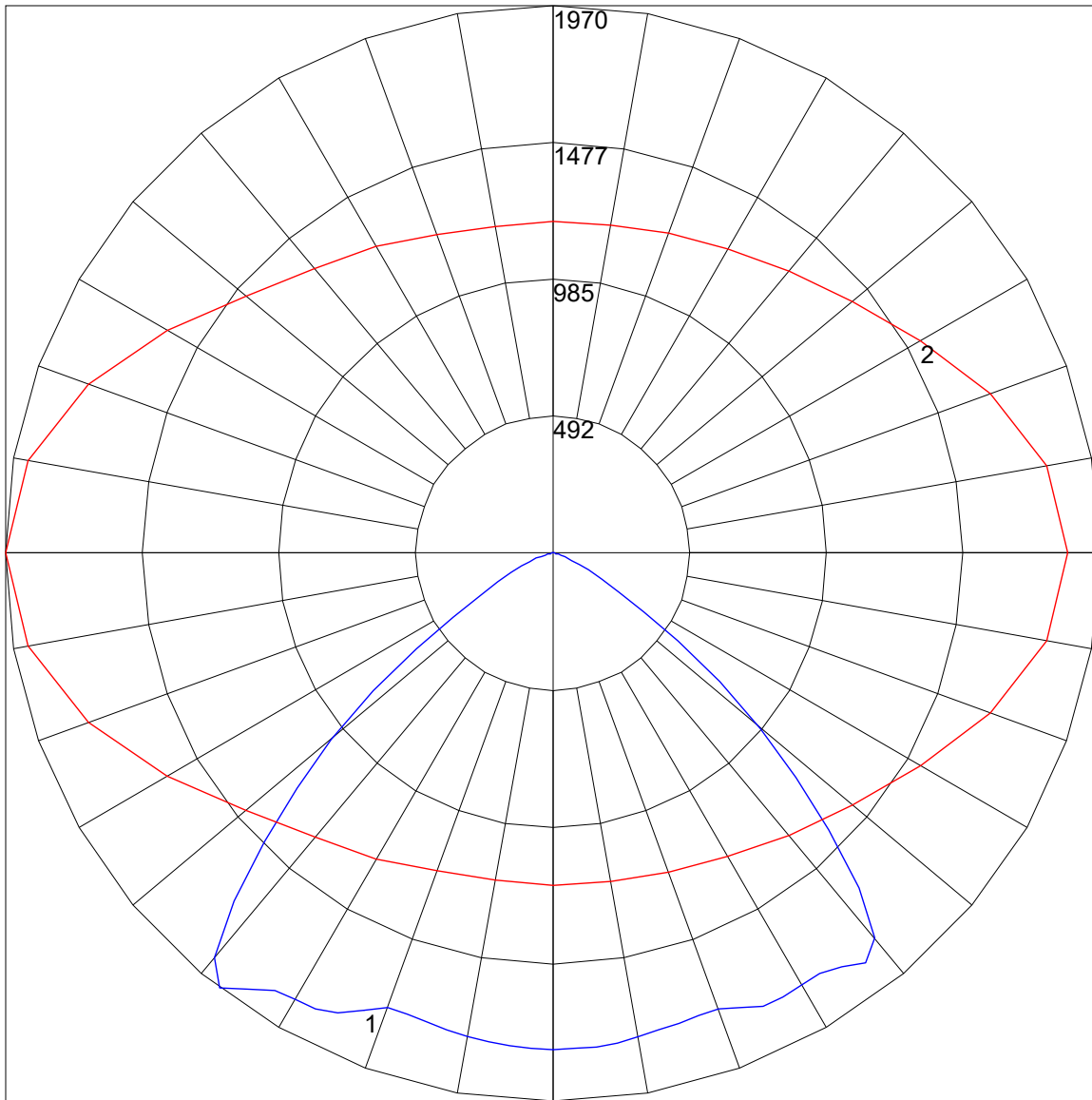
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.3	18.7	17.6	19.1	19.4	17.0	18.5	17.4	18.8	19.1
	3H	17.4	18.7	17.8	19.1	19.4	17.7	19.0	18.0	19.3	19.7
	4H	17.4	18.6	17.8	19.0	19.3	17.8	19.1	18.2	19.4	19.8
	6H	17.3	18.5	17.7	18.8	19.2	17.8	19.0	18.2	19.3	19.7
	8H	17.3	18.4	17.7	18.8	19.2	17.8	18.9	18.2	19.3	19.7
	12H	17.2	18.3	17.7	18.7	19.1	17.8	18.8	18.2	19.2	19.6
4H	2H	17.7	18.9	18.1	19.3	19.7	17.5	18.7	17.9	19.0	19.4
	3H	17.9	18.9	18.3	19.3	19.7	18.3	19.3	18.7	19.7	20.1
	4H	17.9	18.8	18.3	19.2	19.7	18.5	19.4	18.9	19.8	20.2
	6H	17.9	18.6	18.3	19.1	19.6	18.5	19.3	19.0	19.8	20.2
	8H	17.8	18.5	18.3	19.0	19.5	18.5	19.2	19.0	19.7	20.2
	12H	17.8	18.4	18.3	18.9	19.4	18.5	19.1	19.0	19.6	20.1
8H	4H	17.9	18.7	18.4	19.1	19.6	18.5	19.2	18.9	19.6	20.1
	6H	17.9	18.5	18.4	19.0	19.5	18.5	19.2	19.0	19.6	20.1
	8H	17.8	18.4	18.3	18.9	19.4	18.5	19.1	19.0	19.6	20.1
	12H	17.8	18.3	18.3	18.8	19.3	18.5	19.0	19.0	19.5	20.1
12H	4H	17.9	18.6	18.4	19.1	19.5	18.4	19.1	18.9	19.6	20.0
	6H	17.9	18.4	18.4	18.9	19.4	18.5	19.1	19.0	19.5	20.1
	8H	17.8	18.3	18.3	18.8	19.4	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1969.857 Located At Horizontal Angle = 180, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)